

MERCHANT & GOULD P.C.

United States Patent Application**DECLARATION**

As a below named inventor, we hereby declare that: our residences, post office addresses and citizenships are as stated below next to our names; that

We verily believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled IN-SITU DETECTION OF TRANSDUCER MAGNETIC INSTABILITY IN A DISC DRIVE, the specification of which is attached hereto.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (described hereinbelow).

We hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

- a. ☒ no such applications have been filed.
 b. ☐ such applications have been filed as follows:

FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC § 119			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

We hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

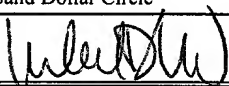

For Continuation-in-Part (CIP) Applications, complete

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

We hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/311,136	9 August 2001

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

201	2	Full Name Of Inventor	Family Name Schaff	First Given Name Michael	Second Given Name D.
	0	Residence & Citizenship	City Longmont	State or Foreign Country CO	Country of Citizenship USA
	1	Post Office Address	Post Office Address 2115 Sand Dollar Circle	City Longmont	State & Zip Code/Country CO 80503/USA
Signature of Inventor 201: 				Date: 1-24-02	
202	2	Full Name Of Inventor	Family Name Kataria	First Given Name Abhay	Second Given Name T.
	0	Residence & Citizenship	City Longmont	State or Foreign Country CO	Country of Citizenship USA
	2	Post Office Address	Post Office Address 726 Thornwood Way	City Longmont	State & Zip Code/Country CO 80503/USA
Signature of Inventor 202: 				Date: 01/24/2002	
203	2	Full Name Of Inventor	Family Name	First Given Name	Second Given Name
	0	Residence & Citizenship	City	State or Foreign Country	Country of Citizenship
	3	Post Office Address	Post Office Address	City	State & Zip Code/Country
Signature of Inventor 203:				Date:	
204	2	Full Name Of Inventor	Family Name	First Given Name	Second Given Name
	0	Residence & Citizenship	City	State or Foreign Country	Country of Citizenship
	4	Post Office Address	Post Office Address	City	State & Zip Code/Country
Signature of Inventor 204:				Date:	

§ 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information

material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

- (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
- (2) It refutes, or is inconsistent with, a position the applicant takes in:
 - (i) Opposing an argument of unpatentability relied on by the Office, or
 - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

- (1) Each inventor named in the application;
- (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Schaff et al.		
Serial No.:	Unknown	Examiner:	
Filed:	January 24, 2002	Group Art Unit:	Unknown
Title:	IN-SITU DETECTION OF TRANSDUCER MAGNETIC INSTABILITY IN A DISC DRIVE		
Docket:	STL10416/40046.180USU1		

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCAION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified application, all powers of attorney previously given are hereby revoked and the following practitioners/patent agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Shawn B. Dempster, Registration No. 34,321	Raghunath S. Minisandram, Registration No. 38,683
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Kirk A. Cesari, Registration No. 47,479	Carol I. Bordas, Registration No. 37,284
Mitchell K. McCarthy, Registration No. 38,794	Jennifer M. Buenzow Registration No. P-50,124
David K. Lucente, Registration No. 36,202	

And members of the firm of Merchant & Gould P.C.

Albrecht, John W.	Reg. No. 40,481	Hope, Leonard J.	Reg. No. 44,774
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Altera, Allan G.	Reg. No. 40,274	Johns, Nicholas P.	Reg. No. 48,995
Anderson, Gregg I.	Reg. No. 28,828	Johnston, Scott W.	Reg. No. 39,721
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Beard, John L.	Reg. No. 27,612	Kaseburg, Frederick A.	Reg. No. 47,695
Berns, John M.	Reg. No. 43,496	Kettelberger, Denise	Reg. No. 33,924
Branch, John W.	Reg. No. 41,633	Keys, Jeramie J.	Reg. No. 42,724
Brown, Jeffrey C.	Reg. No. 41,643	Knearl, Homer L.	Reg. No. 21,197
Bruess, Steven C.	Reg. No. 34,130	Kowalchyk, Alan W.	Reg. No. 31,535
Byrne, Linda M.	Reg. No. 32,404	Kowalchyk, Katherine M.	Reg. No. 36,848
Campbell, Keith	Reg. No. 46,597	Lacy, Paul E.	Reg. No. 38,946
Carlson, Alan G.	Reg. No. 25,959	Larson, James A.	Reg. No. 40,443
Caspers, Philip P.	Reg. No. 33,227	Leonard, Christopher J.	Reg. No. 41,940
Clifford, John A.	Reg. No. 30,247	Liepa, Mara E.	Reg. No. 40,066
Cook, Jeffrey	Reg. No. 48,649	Lindquist, Timothy A.	Reg. No. 40,701
Daignault, Ronald A.	Reg. No. 25,968	Lown, Jean A.	Reg. No. 48,428
Daley, Dennis R.	Reg. No. 34,994	Mayfield, Denise L.	Reg. No. 33,732
Daulton, Julie R.	Reg. No. 36,414	McDonald, Daniel W.	Reg. No. 32,044
DeVries Smith, Katherine M.	Reg. No. 42,157	McIntyre, Jr., William F.	Reg. No. 44,921
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Doscolch, Matthew A.	Reg. No. P-48,957	Mueller, Douglas P.	Reg. No. 30,300
Edell, Robert T.	Reg. No. 20,187	Nelson, Anna M.	Reg. No. 48,935
Epp Ryan, Sandra	Reg. No. 39,667	Paley, Kenneth B.	Reg. No. 38,989
Glance, Robert J.	Reg. No. 40,620	Parsons, Nancy J.	Reg. No. 40,364
Goff, Jared S.	Reg. No. 44,716	Pauly, Daniel M.	Reg. No. 40,123
Goggin, Matthew J.	Reg. No. 44,125	Phillips, John B.	Reg. No. 37,206
Golla, Charles E.	Reg. No. 26,896	Pino, Mark J.	Reg. No. 43,858
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Gould, John D.	Reg. No. 18,223	Pytel, Melissa J.	Reg. No. 41,512
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Gresens, John J.	Reg. No. 33,112	Reich, John C.	Reg. No. 37,703
Hamer, Samuel A.	Reg. No. 46,754	Reiland, Earl D.	Reg. No. 25,767
Hamre, Curtis B.	Reg. No. 29,165	Samuels, Lisa A.	Reg. No. 43,080
Harrison, Kevin C.	Reg. No. 46,759	Schmaltz, David G.	Reg. No. 39,828
Hertzberg, Brett A.	Reg. No. 42,660	Schuman, Mark D.	Reg. No. 31,197
Hillson, Randall A.	Reg. No. 31,838	Schumann, Michael D.	Reg. No. 30,422
Holzer, Jr., Richard J.	Reg. No. 42,668	Sculi, Timothy B.	Reg. No. 42,137

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Sebald, Gregory A.	Reg. No. 33,280	Weaver, Paul I.	Reg. No. 48,640
Skoog, Mark T.	Reg. No. 40,178	Welter, Paul A.	Reg. No. 20,890
Spellman, Steven J.	Reg. No. 45,124	Whipps, Brian	Reg. No. 43,261
Stewart, Alan R.	Reg. No. 47,974	Whitaker, John E.	Reg. No. 42,222
Stoll-DeBell, Kirstin L.	Reg. No. 43,164	Wier, David D.	Reg. No. P-48,229
Sullivan, Timothy	Reg. No. 47,981	Williams, Douglas J.	Reg. No. 27,054
Sumner, John P.	Reg. No. 29,114	Withers, James D.	Reg. No. 40,376
Swenson, Erik G.	Reg. No. 45,147	Witt, Jonelle	Reg. No. 41,980
Tellekson, David K.	Reg. No. 32,314	Wong, Thomas S.	Reg. No. 48,577
Trembath, Jon R.	Reg. No. 38,344	Wu, Tong	Reg. No. 43,361
Tunheim, Marcia A.	Reg. No. 42,189	Young, Thomas	Reg. No. 25,796
Underhill, Albert L.	Reg. No. 27,403	Zeuli, Anthony R.	Reg. No. 45,255
Vandenburgh, J. Derek	Reg. No. 32,179		
Wahl, John R.	Reg. No. 33,044		

CHANGE OF ATTORNEY'S/AGENT'S ADDRESS IN APPLICATION

Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903

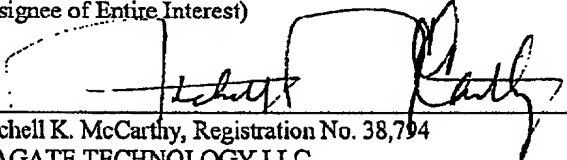
STATEMENT UNDER 37 CFR 3.73(b)

Seagate Technology LLC states that it is the Assignee of Entire Interest in the patent application/patent identified above by virtue of an Assignment from the inventor(s) of the patent application/patent identified above. A copy of the Assignment is attached and/or was recorded in the Patent and Trademark Office at Reel _____, Frame _____. The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the Assignee.

Respectfully submitted,

SEAGATE TECHNOLOGY LLC
(Assignee of Entire Interest)

1/24/2002
Date



Mitchell K. McCarthy, Registration No. 38,794
SEAGATE TECHNOLOGY LLC
Mail Stop: OKM280
10321 W. Reno
Oklahoma City, OK 73127
405.577.7239

20040210 142500T

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael D. Schaff
Abhay T. Kataria

2. Name and address of receiving party(ies):

Seagate Technology LLC
920 Disc Drive
Scotts Valley, California 95067

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: January 24, 2002

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: January 24, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John R. Wahl, Esq.
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903



6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

John R. Wahl

Name of Person Signing

Signature

January 24, 2002

Date

Total number of pages including cover sheet, attachments, and document: 5

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Washington, D.C. 20231

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ASSIGNMENT

WHEREAS, we, Michael D. Schaff, residing at 2115 Sand Dollar Circle, Longmont, CO 80503, ; Abhay T. Kataria residing at 726 Thornwood Way, Longmont, CO 80503, are the inventors of an invention entitled IN-SITU DETECTION OF TRANSDUCER MAGNETIC INSTABILITY IN A DISC DRIVE that is the subject matter of

☒ a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Serial No. 60/311,136, filed August 9, 2001;

☒ an application for Letters Patent, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Serial No. _____, filed _____; and

☐ an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving office by Application No. _____, filed on _____; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under and by virtue of the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California 95067 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and serial numbers of the application when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters

Figure 1 consists of 12 sub-graphs labeled (a) through (l), each plotting a different physiological parameter against time (0 to 10 minutes). The y-axis for all graphs is 'Arbitrary Units' ranging from 0 to 10. The data series for each graph are as follows:

- (a) HR: Starts at ~5, rises to ~8 by 10 min.
- (b) RR: Starts at ~5, rises to ~8 by 10 min.
- (c) SpO₂: Starts at ~85, rises to ~95 by 10 min.
- (d) BP: Starts at ~80, rises to ~100 by 10 min.
- (e) MAP: Starts at ~60, rises to ~80 by 10 min.
- (f) SV: Starts at ~40, rises to ~60 by 10 min.
- (g) CO: Starts at ~4, rises to ~6 by 10 min.
- (h) PVR: Starts at ~10, rises to ~20 by 10 min.
- (i) PVR_i: Starts at ~10, rises to ~20 by 10 min.
- (j) PVR_r: Starts at ~10, rises to ~20 by 10 min.
- (k) PVR_t: Starts at ~10, rises to ~20 by 10 min.
- (l) PVR_v: Starts at ~10, rises to ~20 by 10 min.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28°C. The cell concentration of the strains was adjusted to 1.0 × 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results are shown as the mean ± SD of three independent experiments. The asterisk indicates a significant difference (*P* < 0.05) between the two strains.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 24 day of
January, 2001-2002



Abhay T. Kataria

STATE OF Colorado)
COUNTY OF Boulder)ss:

On this 24th day of January, 2002, before me personally appeared Abhay T. Kataria to me known to be the person described in, and who executed the foregoing instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]


Notary Public

Commission expires 12/30/2003

204210-4225001